Bukkuru Syam

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SKILLS

- **Languages**: Python, JavaScript, C, PHP
- **Frameworks**: HTML and CSS, Bootstrap, NodeJS, React
- **Tools/Platforms**: MySQL, Postman, GitHub, Celery
- **Soft Skills**: Problem-Solving Skills, Team Leader, Project Management, Adaptability

INTERNSHIP

- **AIMER Society – AI Medical and Engineering Researchers Society**   March 15 – May 18, 2024
  Machine Learning Intern
  - Developed and fine-tuned CNN and YOLO models for medical image analysis.
  - Implemented OpenCV for image processing tasks in healthcare applications.
  - Created and deployed Telegram bots for AI-driven automation.
  - Worked with Llama2 framework for advanced AI model development.

PROJECTS

- **Library Management & Student Insights System (Client Project – Ongoing)**:
  - Developing a PHP-based log system for tracking student visits and generating insights.
  - Requested by the college librarian, making them my first client.
  - Implemented graphical insights using MySQL and PHP to analyze student visit patterns.
  - Created an intuitive web interface for easy data access by library staff.
  - Enhancing data-driven decision-making for library resource management.

- **Smart Education: Enhancing Learning Trough Explanation-Based Tasks (Hackathon Project)**
  - Developed an innovative solution to replace traditional written assignments with explanation-based learning.
  - Led a team in a high-pressure hackathon environment, delivering a working prototype.
  - Implemented AI-powered RAG application, FAISS, MERN Stack, and Vectorization for personalized learning.
  - Integrated video explanations, concept maps, and interactive learning methods to improve student engagement.

- **Fashion MNIST Classification using CNN:**
  - Build a CNN model using TensorFlow & Keras to classify Fashion MNIST dataset into 10 categories.
  - Achieved 92% accuracy, with precision: 91%, recall: 90%, and F1-score: 90%.
  - Best performance on Trouser (99% accuracy), lowest on Shirts (76% accuracy).
  - Optimized using Batch Normalization, Dropout, and Data Augmentation in Google Colab.

Colab Link: https://colab.research.google.com/drive/1Hwd7C0Yz4D44iwNRU0cSElEWADOghQyW?usp=sharing

CERTIFICATES

- **Code in Place – Stanford University**   April 20 – June 16, 2024
  - Completed an introductory programming course covering control flow, loops, conditionals, console programming, graphics, lists, and dictionaries in Python.
  - Gained hands-on experience in problem-solving through projects like Karel the Robot and Console Programming.

- **Postman API Fundamentals Student Expert**   December 18, 2024
  - Gained expertise in API development, testing, and automation using Postman.
  - Demonstrated skills in REST API principles, authentication, and request handling.

ACHIEVEMENTS

- **National Means-cum Merit Scholarship (NNMS) Qualifier**:
  Awarded a merit-based scholarship of ₹12,000 per year for academic excellence in Class VIII. Selected through a competitive state-level exam conducted by the government.

- **Throw Ball Achievements**:
  Played in three school tournaments and won all. Captain of the team in 10th grade, leading to a mandal-level championship victory

EDUCATION

- **Seshadri Rao Gudlavalleru Engineering College**

  Bachelor of Technology - Computer Science and Engineering; CGPA: 8.4

  India
  Since November 2022

- **Sri New Vision Junior College**, **Gudivada**

  Class XII; Percentage: 83.5%

  Andhra Pradesh
  November 2020 - March 2022

- **Montessori English Medium High School**, **Gudivada**

  Class X; CGPA: 9.8

  Andhra Pradesh
  April 2019 - March 2020

ADDITIONAL SKILLS

- **Student Mentor & Tutor (6PM – 8 PM, Ongoing)**
  - Mentoring and tutoring school students in subjects like Mathematics and Science.
  - Helping students with conceptual understanding, problem-solving skills, and academic growth.
  - Conducting personalized sessions to improve learning outcome and confidence.
  - Gained key skills in people handling, stress management, structured planning, and effective communication through mentoring.

AVAILABILITY   MAY 25 – AUGUST 31